Bids received until Mar. 16, 1915.

Parkway Improvement

DEPARTMENT OF PUBLIC WORKS.
Office, 216 City Hall.
Philadelphia, February 20th, 1915.

Sealed proposals, endorsed, "Bids for Improvement of the Parkway," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on Tuesday, March 16th, 1915, and opened and read at that time in Room 225, City Hall, for the Improvement of the Parkway from 19th St. to 22nd St. and work incidental thereto.

Estimated quantities of work to be done are as follows:

Grading	30,000	cu.yds.
Asphalt Paving	33,000	sq.yds.
Vitrified Block Paving	3,400	sq.yds.
Granite Block Paving	3,500	sq.yds.
Sewers	800	lin.ft.
Concrete Curb	11,800	lin.ft.
Concrete Footways	14,500	sq.yds.
Topsoil	28,200	sq.yds.
Water Pipe	2,500	lin.ft.
Electrical Conduits	10,200	lin.ft.

Together with all incidental work, including the removal of existing structures, trees and planting, manholes, inlets, hydrants, etc.

A charge of five (5) dollars will be made for each set of specifications and drawings, which will be refunded upon the return of the unused specifications and drawings in good condition, or upon the return of the drawings in case a bid is submitted.

Specifications and blank forms upon which bids must be made, can be obtained upon application at the office of the Bureau of Highways, Room 232, City Hall.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81 West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

M. L. COOKE, Director.

Bids received until Mar. 11, 1915.

Turbo-Centrifugal Pump

DEPARTMENT OF PARKS AND PUBLIC PROPERTY
Atlantic City, N. J.
READVERTISEMENT

SEALED PROPOSALS accompanied by plans and specifications for designing, furnishing, installing and testing One 18 Million Gallon Turbo-Centrifugal Pump with appurtenances, for the Absecon Pumping Station of Atlantic City, N. J., will be received by the Board of Commissioners of Atlantic City, when called for at the Chambers of said Board in the City Hall during a meeting to be held by that Body on the 11th day of March, A.D. 1915, at which time and place, during a session of said Board the Proposals will be opened and publicly read.

Each Proposal submitted must be accompanied by a certified check drawn upon a National or State Bank, or a Trust Company and to the order of the City Treasurer of Atlantic City, N. J., for the sum of Three Thousand ($3,000.00) Dollars.

Specifications and blank forms of Proposal can be obtained from L. Van Gilder, Engineer and Superintendent of the Water Department, at his office in the City Hall.

The Board of Commissioners expressly reserve the right to reject any or all bids as it may seem best for the public interest.

HARRY BACHARACH,
Director of Parks and Public Property.

Bids received until Mar. 17, 1915.

Sanitary Sewers

Butte, Mont.

Sealed proposals for the construction of 13 miles of 8", 10" and 12" sanitary sewers for the South Side will be received by John C. Driscoll, City Clerk, until 5 o'clock P.M. Wednesday, March 17, 1915. Certified check for 10% of the amount bid must accompany all proposals.

Plans and specifications may be obtained at the office of the Commissioner of Public Works upon the deposit in the sum of $20.00, same to be refunded when plans and specifications are returned in good condition.

W. J. FLOOD,
Commissioner of Public Works.

Bids received until Mar. 12, 1915.

Five Pumping Engines

MAYFAIR PUMPING STATION.
Department of Public Works.
Chicago, February 17, 1915.

Sealed Proposals will be received by the City of Chicago until 11 A.M. Friday, March 12th, 1915, at Room 406 City Hall, and then publicly opened, for furnishing and erecting five pumping engines at the Mayfair pumping station, Chicago, as follows:

Three pumping engines, capacity 25 million gallons per day, normal head 140 ft.

Two pumping engines, capacity 17½ million gallons per day, normal head 200 ft.

The contract includes discharge piping and suction connections for seven engines, according to Plans and Specifications on file in the office of the Department of Public Works of said City, Room 406 City Hall.

Proposals must be made out upon blanks furnished at said office, and be addressed to said Department, indorsed "Proposals for Five Pumping Engines, Mayfair Pumping Station," and be accompanied with Twenty-five Thousand Dollars in money or a certified check for the same amount on some responsible Bank located and doing business in the City of Chicago and made payable to the order of the Commissioner or Public Works.

The Commissioner of Public Works reserves the right to reject any or all bids.

A deposit of three hundred dollars ($300.00) will be required to insure return of plans and specifications.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the Commissioner of Public Works of his ability, and that he has the necessary facilities together wtih sufficient pecuniary resources to fulfill the conditions of the Contract and Specifications, provided such Contract should be awarded to him.

Companies or firms bidding will give the individual names as well as the name of the firm with their address.

L. E. McGANN,
Commissioner of Public Works.

Bids received until Mar. 11, 1915.

Excavator

DEPARTMENT OF PARKS AND PUBLIC PROPERTY
Atlantic City, N. J.

SEALED PROPOSALS, accompanied by plans and specifications, for designing, furnishing, erecting and operating under a guarantee—One "DRAG LINE" or "SLACK LINE" EXCAVATOR, capable of excavating 800 cubic yards per day, for use at the Doughty Pond for the City of Atlantic City when called for at the Chambers of the Board of Commissioners in the City Hall during a meeting to be held by that body on the 11th day of March, 1915, at which time and place, during a session of said Board the Proposals will be opened and publicly read.

Each proposal submitted must be accompanied by a certified check drawn upon a National or State Bank, or a Trust Company, and to the order of the City Treasurer of Atlantic City, N. J., for the sum of Three Thousand ($3,000.00) Dollars.

Specifications and blank forms of Proposal can be obtained from L. Van Gilder, Engineer and Superintendent of the Water Department, at his office in the City Hall.

The Board of Commissioners expressly reserve the right to reject any or all bids as it may deem best for the public interest.

HARRY BACHARACH,
Director of Parks and Public Property.

Bids received until Mar. 10, 1915.

Proposals for Street Paving

Angola, Indiana.

Sealed Proposals will be received at the City Clerk's office, Angola, Indiana, until Wednesday, March 10, 1915, at 1:30 P.M., for curbing and paving E. Maumee St., being about 8400 sq.yds., in accordance with Plans and Specifications now on file in the City Clerk's office. Specifications may be obtained from Clark F. Powers, City Engr.

ROY HIRST, City Clerk.

Bids received until Mar. 10, 1915.

Storm-Water Contract No. 42, Gwynn's Run Trunk Drain, Section No. 1

OFFICE OF THE SEWERAGE COMMISSION
OF THE CITY OF BALTIMORE
Baltimore, Feb. 17th, 1915.

SEALED PROPOSALS, in duplicate, indorsed "Proposal for building Gwynn's Run Trunk Drain, Section No. 1, Storm-water Contract No. 42," addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 A.M. Wednesday, March 10, 1915, for building Section No. 1 of the Gwynn's Run Trunk Drain, as shown on plans on file in the office of Mr. Calvin W. Hendrick, Chief Engineer of the Sewerage Commission.

Specifications and plans can be obtained upon application at the office of the Secretary of the Commission, 904 American Building, on and after Tuesday, February 23rd, 1915.

A charge of $5.00 will be made for each set of specifications and plans, which charge will be refunded upon the return on or before March 10th, 1915, of the unused specifications and blueprints in good condition, or upon the return of the General Specifications and plans in case a bid is submitted.

A certified check of the bidders on a clearing house bank, in the sum of $3,000.00, made payable to the order of the Mayor and City Council of Baltimore, will be required to be deposited with each bid.

Approximate Quantities.

1,200 feet 15'x12'6" drain.
150 feet 18'x12'6" drain.
665 feet excavated outlet channels.
8,300 cu.yds. of earth excavation.
700 cu.yds. of rock excavation.
4,750 cu.yds. of concrete.
310 cu.yds. of brick masonry.
250,000 pounds of reinforcing steel.

The successful bidder on this contract will be required to give bond and comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any and all bids.

By order of the Sewerage Commission:
CHARLES ENGLAND, Chairman.
HARRY W. RODGERS, Secretary.
Approved: February 17, 1915.
JOHN HUBERT,
Acting President, Board of Awards.

Concrete Roads

I want the names of contractors in Southern Illinois, or Missouri, to figure on six miles of concrete roads, for an estate. C. L. 874, Engineering News, Chicago.

Bids received until Mar. 23, 1915.

Street Improvements and Sewerage

Kinston, N. C.

Sealed proposals will be received by the City Council of the City of Kinston, N. C., at the City Hall in Kinston, N. C., until 5 P.M. March 23rd, 1915, for Street Improvements and Sewerage.

The work will consist of about:

12,000 sq.yds., or more, of Brick, Asphalt, Bitulithic, or other pavement.

30,000 lineal feet of concrete Curb and Gutter.

20,000 sq.yds. of Sidewalk.

8 miles of 8 to 18 inch pipe sewers.

Proposals must be marked, "Proposal for Street Improvements," or "Proposal for Sewerage."

All bids must be upon blank forms provided in the Proposal and Contract and Specifications.

Each bid must be accompanied by a certified check for $1000.00 as an evidence of good faith.

Plans and Specifications will be on file at the Clerk's Office in Kinston and at the office of the Engineer in Charlotte; and copies of the specifications, form of proposal, etc., will be mailed upon application to the Engineer at Charlotte, N. C., when accompanied by a check for ten dollars to insure their return within 30 days after the letting.

The right is reserved to reject any or all bids.

FRED I. SUTTON, Mayor.
Engineer: GILBERT C. WHITE,
Charlotte, N. C.

Bids received until Mar. 20, 1915.

Pompey's Pillar Creek Bridge

Billings, Mont.

NOTICE IS HEREBY GIVEN that sealed proposals will be received by the Board of County Commissioners of Yellowstone County, Montana, until 12 o'clock M. March 20th, 1915, for the construction of a highway bridge over the Yellowstone River near the mouth of Pompey's Pillar Creek in said County.

An unconditional certified check in the sum of $4500.00 to guarantee bid shall be filed with the County Clerk twenty-four hours in advance of the expiration of time for receiving bids.

Certified check shall be made payable to Marce Sorenson, Chairman of the Board of County Commissioners.

Plans and specifications are on file in the office of the County Surveyor, Arthur Boyer, at which office plans and specifications may be purchased for $5.00 per set.

The Board of County Commissioners reserves the right to reject any or all proposals.

By order of the Board.
F. E. WILLIAMS, County Clerk.
Dated at Billings, Montana, February 20, 1915.

Bids received until Mar. 20, 1915.

Duck Creek Bridge

Billings, Mont.

NOTICE IS HEREBY GIVEN that sealed proposals will be received by the Board of County Commissioners of Yellowstone County, Montana, until 12 o'clock M. March 20th, 1915, for the construction of a highway bridge over the Yellowstone River near the mouth of Duck Creek in said County.

An unconditional certified check in the sum of $3200.00 to guarantee bid shall be filed with the County Clerk twenty-four hours in advance of the expiration of time for receiving bids.

Certified check shall be made payable to Marce Sorenson, Chairman of the Board of County Commissioners.

Plans and specifications are on file in the office of the County Surveyor, Arthur Boyer, at which office plans and specifications may be purchased for $5.00 per set.

The Board of County Commissioners reserves the right to reject any or all proposals.

By order of the Board,
F. E. WILLIAMS, County Clerk.
Dated at Billings, Montana, February 20, 1915.

Bids received until Mar. 10, 1915.

Track Material

PORT COMMISSIONERS OF JACKSONVILLE.
Engineer's Office.
Jacksonville, Fla., Feb. 18th, 1915.

Sealed proposals will be received until 12 o'clock noon on Wednesday, March 10th, 1915, and then publicly opened by the Port Commissioners of Jacksonville, Florida, Room 314 Realty Bldg., for furnishing track material as follows:

Item No. 1 660 gross tons of 70-lb. rail.
Item No. 2 40 tons four bolt angle splice bars.
Item No. 3 3 tons bolts and nuts.
Item No. 4 18 tons spikes.
Item No. 5 45 turn-outs including switches, frogs and switch stands.

Bids will be considered on both "Open Hearth" or "Bessemer" Steel.

Above quantities are only approximate.

Specifications may be obtained from the Chief Engineer.

The Port Commission reserves the right to reject any or all bids, or items thereof as may seem to their best advantage.

F. W. BRUCE, Chief Engineer.

Bids received until Mar. 29, 1915.

Asphaltic Cement

Lansing, Mich.

Bids for asphaltic cement will be received by the City of Lansing, Michigan, up to March 29, 1915, at 4 o'clock p.m., at the office of the City Clerk of said city.

Plans and specifications can be secured from the City Engineer of said city.

JOHN McCLELLAN, City Clerk.

U. S. ENGINEER OFFICE, New London, Conn., Feb. 18, 1915.—Sealed proposals for dredging in the Connecticut River below Hartford, will be received here until 2 o'clock p.m., Mar. 18, 1915, and then publicly opened. Information on application. G. B. PILLSBURY, Major, Engrs.

Bids received until Mar. 15, 1915.

Street Paving

Steelton, Pennsylvania.

Sealed proposals will be received by the Town Council of the Borough of Steelton, Pennsylvania, at the Council Chamber until 7:30 P.M., Monday, March 15th, 1915, to be opened at a special meeting of the Town Council to be held at the said time and place for the subgrading, paving and curbing of the following streets:

South Third Street from Highland to DuPont, Highland Street from Second to Third and Conestoga Street from Front to Christian Street.

Plans, specifications, form of proposal and form of contract can be had from the Borough Secretary upon the payment of $10.00, which will be refunded upon the return of plans and specifications in good condition.

No proposal will be considered unless accompanied by a certified check made payable to LeRoy H. Sutton, Borough Treasurer, conditioned on the entering into by the successful bidder of a contract in accordance with the specifications and form provided, and furnishing a bond with at least two sureties, or some surety company acceptable to the Town Council, in the sum of approximately twenty-five per cent. (25%) of the cost of the work as set out in detail for each job in the specifications, conditioned for the faithful performance of all terms and conditions of said contract, the form of said bond to be approved by the Borough Solicitor; also maintenance bond conditioned as set forth in the contract and specifications. The amount of the certified checks shall be as follows: Highland Street, $100.00; South Third Street, $500.00; Conestoga Street, $600.00. In the event that the bid covers all of the streets to be paved the certified check shall be in the sum of $1,200.00.

The Town Council reserves the right to reject any or all bids or any part thereof.

Foreign corporations desiring to make bids should be registered in the office of the Secretary of the Commonwealth, as required by the Act of June 8th, 1911, and have a bona fide resident agent in this state with a fixed office, and as a further precaution to the Borough of Steelton, the successful bidder, if a foreign corporation, may at the option of the Town Council be required to empower some person or company satisfactory to the Town Council to accept service for said successful bidder during the term of the contract and bond.

CHAS. P. FEIDT, Borough Secretary.

SEALED PROPOSALS will be received at the Office of the Lighthouse Inspector, Philadelphia, Pa., until 2 o'clock p.m., March 11, 1915, and then opened, for furnishing and depositing 1,000 tons of broken stone and 2,100 tons of riprap at Brandywine Shoal Light Station, Delaware Bay. Blank proposals and particulars may be obtained by addressing the above office.

U. S. ENGINEER OFFICE, 602 Burke Bldg., Seattle, Wash., Feb. 3, 1915.—Sealed proposals for pumping plant for Lake Washington Canal locks will be received at this office until 12 noon, March 15, 1915, and then publicly opened. Information on application to U. S. Engr. Office, Seattle, Wn., Chicago, Ill., or New York, N. Y. J. B. CAVANAUGH, Maj., Engrs.

PROPOSALS FOR RIVER BANK PROTECTION—U. S. Engineer Office, Customhouse, St. Louis, Mo., February 8, 1915.—Sealed proposals for 10,000 linear feet of river bank protection, to include materials and work, will be received at this office until 11 A.M., March 10, 1915, and then publicly opened. Information on application. C. McD. TOWNSEND, Col., Engineers.

Bids received until Mar. 10, 1915.

Road Roller, Mixer, etc.

Sharon, Pa.

SEALED PROPOSALS will be received by the undersigned, Secretary of the Borough of Sharon, until 12 o'clock noon, Wednesday, March 10, 1915, for the following machinery, to wit:

One 3-wheel road roller weighing approximately ten (10) tons.

One batch concrete mixer with gravity distributor and traction drive.

Two 5-barrel heating kettles.

Plans and specifications must accompany each bid. Bidders will also be required to state shortest time delivery and be prepared to furnish bond of $100 to insure delivery in time specified.

The Street Committee and Paving Committee will meet on Wednesday evening, March 10, 1915, at 7 o'clock p.m. to open bids. Recommendations for purchase will probably be made at meeting of Council on March 11, 1915.

BOROUGH OF SHARON,
CLAUDE B. LARTZ, Secry.

U. S. ENGINEER OFFICE, Wilmington, N. C., Feb. 10, 1915.—Sealed proposals for dredging in Neuse River, waterway from Pamlico Sound to Beaufort Inlet, and Beaufort Harbor, N. C., will be received at this office until 12 M., Mar. 9, 1915, and then publicly opened. Information on application. H. W. STICKLE, Maj., Engineers.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, 39 Whitehall Street, New York, N. Y., February 13, 1915.—Sealed proposals for furnishing and delivering 32,000 barrels of American Portland Cement will be received at this office until 12 M., February 26, 1915, and then publicly opened. Information on application. W. M. BLACK, Col., Engrs.

U. S. ENGINEER OFFICE, Room 707, Army Building, New York, N. Y., Feb. 11, 1915.—Sealed proposals for 20 tanks, from 2,250 to 5,700 gals. capacity, for Philippine Islands, will be received at this office until 12 M., March 9, 1915, and then publicly opened. Information on application. S. W. ROESSLER, Col., Engrs.

U. S. ENGINEER OFFICE, Charleston, S. C., February 17, 1915.—Sealed proposals for dredging in Ashley River, S. C., will be received at this office until noon, March 19, 1915, and then publicly opened. Information on application. G. A. YOUNGBERG, Major, Engrs.

U. S. ENGINEER OFFICE, Duluth, Minn., Feb. 24, 1915.—Sealed proposals for constructing and delivering complete the steel hull, 4½ yard dipper dredge, "Col. D. D. Gaillard," will be received at this office until 10 o'clock a.m., March 26, 1915, and then publicly opened. Information on application. E. D. PEEK, Major, Engrs.

U. S. ENGINEER OFFICE, Galveston, Texas, Feb. 2, 1915.—Sealed proposals for dredging at Port Aransas, Texas, and in the Channel from Aransas Pass to Corpus Christi, Texas, will be received at this office until 12 o'clock noon, March 3, 1915, and then publicly opened Information on application. C. S. RICHE, Lieut. Col., Engineers.

U. S. ENGINEER OFFICE, Galveston, Texas, February 15, 1915.—Sealed proposals for jetty and dike work at Aransas Pass, Texas, will be received at this office until 12 M., March 16, 1915, and then publicly opened. Information on application. C. S. RICHE, Lieut. Colonel, Engineers.

U. S. ENGINEER OFFICE, 405 Customhouse, Cincinnati, O., January 30, 1915.—Sealed proposals for constructing and delivering two steel Fuel Flats Nos. 18 and 19, and one steel Barge No. 15, will be received at this office until 2 p.m., March 2, 1915, and then publicly opened. Information on application. H. JERVEY, Lt. Col., Engrs.

Classified Advertising

Positions Wanted, 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

Positions Open, (Civil Service Examinations), **Employment Agencies** (Labor Bureaus), **Business Opportunities, Wanted** (Agents and Salesmen—Contract Work), **Miscellaneous** (Educational—Books), **For Sale,** 5 cents a word, minimum charge $1.00 an insertion.

Count four words for keyed address care of New York; five for Chicago. Abbreviated words or symbols count as full words.

Copy should reach us not later than 10 A.M. Wednesday for that week's issue. Answers addressed to our care, Tenth Avenue at Thirty-sixth St., New York or 1144 Monadnock Block, Chicago will be forwarded (excepting circulars or similarliterature).

No information given by us regarding keyed advertiser's name or address. Original letters of recommendation or other papers of value should not be inclosed to unknown correspondents. Send copies.

Advertisements calling for bids, $3.60 an inch per insertion. N

POSITIONS WANTED

Mechanical and Electrical Engineers

MECHANICAL ENGINEER, 35, technical school and 12 years' broad experience; New York interview. P. W. 881, Eng. News.

MECHANICAL ENGINEER, 37 years old, able, experienced, resourceful, now mechanical superintendent and assistant manager large manufacturing plant, desires position vicinity of New York. P. W. 887, Eng. News.

MECHANICAL ENGINEER, 35, fifteen years' experience, industrial engineering, structural steel, concrete, estimating and inspecting, holding responsible position, desires change; salary $2400. P. W. 890, Eng. News.

Civil Engineers

ENGINEER, 14 years' experience; surveys on railroad location and construction, irrigation, drainage, United States Geological, subdivisions, flood prevention and sewers. Flitman, 374 Fortieth Ave., Milwaukee.

CIVIL ENGINEER; graduate, 12 years' practical experience with consulting engineers and utility companies; water works and other utilities; investigations, reports, design, construction, appraisals. References. P. W. 825, Eng. News.

YOUNG MAN—Technical graduate, 3 years' experience office and field, well recommended. Engineer or contractor. P. W. 799, Eng. News.

CIVIL ENGINEERING GRADUATE desires position as instrumentman. P. W. 833, Eng. News.

CIVIL ENGINEER, 36, with broad field and office experience in railroad, hydrographic, dredging, water supply and building construction; thorough knowledge of drafting and designing; first-class references; immediately available. P. W. 856, Eng. News.

GRADUATE CIVIL ENGINEER, 24, desires position; two years' experience steel structures and concrete. P. W. 868, Eng. News.

CIVIL ENGINEER, technical graduate, three years' general experience on steel, reinforced concrete, and railway construction, desires position with opportunity for advancement; excellent references. P. W. 871, Eng. News.

CIVIL ENGINEER, 30; single; eight years drainage, municipal, etc.; now in Southwest. P. W. 886, Eng. News.

EXPERIENCED CIVIL ENGINEER, graduate, desires position as rodman or chainman; go anywhere. P. W. 908, Eng. News, Chicago.

GRADUATE CIVIL ENGINEER; six years' experience, structural drafting railroad work and factory construction. P. W. 906, Eng. News.

CIVIL ENGINEER, technical graduate; 24; two years' experience, railroad maintenance and reinforced-concrete bridge design and construction. P. W. 909, Eng. News.

CIVIL ENGINEER; good technical education; six years' experience in field, drafting and design, timber, steel and concrete structures (specializing in reinforced concrete); tracks, yards and earthwork; on heavy railroad constuction and Panama Canal. P. W. 911, Eng. News.

SEVENTEEN YEARS' EXPERIENCE, water-supply, irrigation, power, subways, canals, locks, dams, sanitary engineering; will consider position or business proposition; New York City preferred. P. W. 907, Eng. News.

I. C. S. STUDENT; 21; 3½ years on Canadian railway; sober; references; desires position as rodman, instrumentman, or timekeeper with contractor; go anywhere; available now. P. W. 895, Eng. News.

GRADUATE CIVIL ENGINEER; 9 years' experience; 4 in Latin America, railroads, docks, bridges, sugar mills, drainage surveys; American Society Associate Member; speak Spanish. P. W. 894, Eng. News.

CIVIL ENGINEER AND SUPERINTENDENT; Associate Member American Society; 8 years' experience, railroads, construction and maintenance bridges, docks, buildings, drainage and surveys; references. P. W. 893, Eng. News.

Bridge and Structural

BRIDGE AND STRUCTURAL ENGINEER with long experience holding responsible positions wishes to change location. P. W. 751, Eng. News.

STRUCTURAL DRAFTSMAN; two years' technical training, four years' thorough experience; laying out, inspecting, detailing; available immediately; interview Cleveland. P. W. 892, Eng. News, Chicago.

Surveyors

INSTRUMENTMAN, married, seven years' experience, all kinds of surveying, desires change; can handle men. Caperell, 47 Union St., Flushing, L. I.

Draftsmen

DRAFTSMAN, five years' experience mechanical, structural, engineering; technical education; ambitious, reliable; salary secondary consideration. P. W. 903, Eng. News.

Superintendents, Etc.

ENGINEER desires position. Expert derrick or cableway runner. Massachusetts and New York City licenses. References from all former employers. Location no object. P. W. 815, Eng. News.

GRADUATE ENGINEER, 10 years' experience on construction of various types foundations, bridge piers, retaining walls, bridges, railroad construction, wants job with contractors or engineering firm as superintendent or in charge construction office. Unmarried, go anywhere. P. W. 817, Eng. News.

ESTIMATOR, general building construction, graduate civil engineer, 10 years' experience, reliable, hustler, wants change, New York location. P. W. 769, Eng. News.

SUPERINTENDENT, experienced in highway, park and sewer construction, also in quarrying and crushing stone; estimator and organizer; go anywhere. P. W. 831, Eng. News.

SUPERINTENDENT or general foreman of crushing or mixing plant available Mar. 1; location immaterial; excellent references. P. W. 829, Eng. News, Chicago.

SUPERINTENDENT of building; 12 years' experience general building construction; references; go anywhere. P. W. 840, Eng. News, Chicago.

CONSTRUCTION ENGINEER; 16 years' experience, buildings, bridges, massive concrete, difficult foundations; good references. P. W. 885, Eng. News.

SUPERINTENDENT OR GENERAL FOREMAN; 15 years experience in office and factory building; dam, power and filtration plant construction, Government and city work; contractors' plants erected and maintained at low cost; thorough knowledge of carpentry, steel and iron work. P. W. 888, Eng. News.

SALES-ENGINEER; five years traveling Eastern half of the United States, selling and promoting various building materials; open for engagement Mar. 1. P. W. 889, Eng. News.

Y. M. C. A. BUILDERS—Superintendent and estimator on this class of work wants position. P. W. 912, Eng. News.

CONTRACTORS' ENGINEER AND ESTIMATOR; 17 years' experience roads, sewers, pavements, tunnels, dredging, concrete work, bridges, bulkheads, water-front improvements. P. W. 913, Eng. News.

SUPERINTENDENT OR GENERAL FOREMAN, ten years' experience reinforced-concrete buildings; high experience with chutes; sober; highest reference. P. W. 916, Eng. News.

BUILDING SUPERINTENDENT wants position; a hustler; age 27; a good draftsman and estimator with 10 years' experience in all kinds of building construction and a carpenter by trade; have a thorough knowledge of brickwork, stonework, reinforced concrete, steel erection and contractors' plant; have my own transit, etc., and will go anywhere. P. W. 901, Eng. News.

SUPERINTENDENT OR GENERAL FOREMAN; past four years in charge unit methods of construction; also general experience in industrial buildings construction; age 31; unmarried; will go anywhere. P. W. 902, Eng. News, Chicago.

ENGINEER, 28, two years' experience on New York State highway construction, good instrumentman, estimator, supervisor of construction, technical graduate, desires position with contractor or consulting engineer. P. W. 910, Eng. News.

SALES ENGINEER, college graduate, seven years' engineering experience, mechanical and structural steel, wants to get into the selling end on salary or to take agency. P. W. 918, Eng. News, Chicago.

PRACTICAL CONCRETE SUPERINTENDENT; 15 years' experience in New York City, all kinds of concrete work, cement paving and cinder concrete fireproofing; experienced with foreign laborers; good solicitor and estimator; anywhere. P. W. 905, Eng. News.

GRADUATE ENGINEER, three years' experience in railway maintenance and construction, timekeeping and concrete inspection; eight months road surveys and topographic work, four months in full charge; three months factory construction; available immediately. P. W. 915, Eng. News.

POSITIONS OPEN

AN EXPERIENCED MAN to manage a steam drag line machine; also two drag line operators; do not apply unless you can furnish first class reference. P. 919, Eng. News, Chicago.

FIRST OF MAY, a capable, energetic superintendent on extensive excavation contract, must be well acquainted with steam shovel and drag line work; state salary expected and give references. P. 891, Eng. News.

Civil-Service Opportunities

Competitive examinations for the civil-service positions named below will be held on or up to the dates given. For detailed information, write the addresses specified.

MECHANICAL ENGINEER—(Male)—$160-$250 per month; for vacancy in the Accounting and Engineering Dept. of the Illinois Public Utilities Commission; write to the State Civil Service Commission, Springfield, Ill.

UTILITIES INVESTIGATOR—(Male)—$100-$150 per month; for vacancy in the Accounting and Engineering Dept. of the Illinois Public Utilities Commission; write to the State Civil Service Commission, Springfield, Ill.

JUNIOR ENGINEER—(Male)—$75-$100 per month; examination Mar. 6; for vacancy in the State Highway Dept.; write to the State Civil Service Commission, Springfield, Ill.

SERVICE ENGINEER—(Male)—$200-$300 per month; for vacancy in the Accounting and Engineering Dept. of the Illinois Public Utilities Commission; write to the State Civil Service Commission, Springfield, Ill.

ASSISTANT UTILITIES ENGINEER—(Male)—$90-$125 per month; for vacancy in the Accounting and Engineering Dept. of the Illinois Public Utilities Commission; write to the State Civil Service Commission, Springfield, Ill.

SERVICE INSPECTOR—(Male)—$90-$125 per month; for vacancy in the Accounting and Engineering Dept. of the Illinois Public Utilities Commission; write to the State Civil Service Commission, Springfield, Ill.

RAILROAD ENGINEER—(Male)—$250-$333.33 per month; for vacancy in the Accounting and Engineering Dept. of the Illinois Public Utilities Commission; write to the State Civil Service Commission, Springfield, Ill.

ASSISTANT CHIEF UTILITIES ENGINEER—(Male)—$300-$375 per month; for vacancy in the Accounting and Engineering Dept. of the Illinois Public Utilities Commission; write to the State Civil Service Commission, Springfield, Ill.

ASSISTANT RAILROAD ENGINEER—(Male)—$160-200 per month; for vacancy in the Accounting and Engineering Dept. of the Illinois Public Utilities Commission; write to the State Civil Service Commission, Springfield, Ill.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

TECHNICAL ENGINEERS in every line for available positions; employers and applicants write The Toledo Engineering Agency, Toledo, Ohio.

LABOR BUREAUS

WILLING TO PAY A GOOD BONUS to anyone who is instrumental in obtaining the privilege to conduct a commissary (general store) on any construction work. L. B. 914, Eng. News.

WANTED

AGENTS AND SALESMEN

ENGINEERING REPRESENTATIVES—Agents with offices in all parts of the United States to represent the Thomas Method of reinforced concrete bridge construction. W. M. Thomas, 915 Hibernian Bldg., Los Angeles, Calif.

SALESMAN, engineer, mechanical, now located in Denver, Colo., would like to represent reliable company in Southwestern territory or west coast; best references. W. 904, Eng. News.

MISCELLANEOUS

CONSULTING MATHEMATICIANS, physicists and engineers; refinements of engineering; gyroscopic effect, vibrations, governor troubles, etc.; special research work, including theoretical investigations. M. 862, Eng. News.

BUSINESS OPPORTUNITIES

ENGINEER, mechanical and structural experience, with small capital, wants connection with established engineering, contracting or manufacturing firm, as partner; Milwaukee or Chicago location preferred. B. O. 917, Eng. News, Chicago.

ENGINEER'S GRAND OPPORTUNITY—Long-established young contractor with unquestionable reputation and expert knowledge in the economical construction of public and private work and with exceptional ability in securing and executing profitable contracts desires to meet young graduate civil engineer who is willing to learn the contracting and construction line and take an active interest with an investment of from $15,000 to $25,000. B. O. 872, Eng. News.

FOR SALE

BOUND VOLUMES "ENGINEERING NEWS" (1897-1900); substantial binding, new; $2.75 per volume. Llano, 19 N. Mountain Ave., Montclair, N. J.

CONSTRUCTION ENGINEER.

Graduate C. E.; M. Am. Soc. C. E.; 42 years of age; good health; married. Good executive, manager or superintendent; 21 years' experience on design and supervision. Work has included masonry construction—plain and reinforced, stone and concrete; dams, retaining walls, bridge piers, etc.; rock and pile, wet and dry foundations; cofferdams; power plants and buildings; sewage disposal; water supply. Open for employment about April 1. Desires connection with and can invest in contracting or engineering firm. P. W. 896, Eng. News.

Classified List

Second Hand Machinery, Material and Equipment

For Sale—Exchange—Rent—Wanted

Items not otherwise marked list equipment for sale.

Rates: Less than 4 insertions 55 cents per line—4 to 11 insertions 50 cents per line—12 or more insertions 45 cents per line.

N

ADDRESSES

AVERY, Chas. F., 45 Broadway, New York, N. Y.
BECKWITH, J. S., 108 Park Way, N. S., Pittsburgh, Pa.
BLAIR, John H., Boonville, Indiana.
BRADEN, James C., 26 Cortlandt St., N. Y. City.
CARPENTER & Boxley & Herrick, Inc., 4th Ave. and 70th St., B'klyn, N. Y.
CONTRACTORS' Service Co., 50 Church St., N. Y. City.
DALLETT & CO., Harrison Bldg., Phila., Pa.
DANFORTH Co., John W., 72 Ellicott St., Buffalo, N. Y.—Equipment little used and in excellent condition.
DOUGLAS, Geo. B., 29 Broadway, New York.
GIVIN Co., Herbert, 30 Church St., N. Y. City.
GRIMSHAW Co., Wm. B., 688 Drexel Bldg., Phila., Pa.
HITNER'S Sons Co., Henry A., Philadelphia, Pa.
HOISTING Engine Sales Co., 120 West 32d St., New York.
LINES FLYNN Co., Inc., 30 Church St., N. Y. City.
MARINE Metal and Supply Co., 167 South St., N. Y. City.
NEW RIVER Co., The, Macdonald, W. Va.
PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.
SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.
SCHMIDT, Jr., & Co., C. G. A., Empire Bldg., Phila., Pa.
SOUTHERN Iron & Equipment Co., Atlanta, Ga.
STALLEY, G. T., Box 390, Cleveland, Ohio.
WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

AIR COMPRESSORS

2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

1—4700 Cu. Ft. Rand B. B. 3 Compound Steam and Compound Air Compressor with Condenser.—SAMPSON.

Several second-hand air compressors, steam and belt driven, straight line and two stage of various sizes from 70 to 1300 cu. ft. capacities. Good condition.—SAMPSON.

1—22x22-13-¼x24, Sullivan, steam driven, class WB 2, straight line, 2 stage, cap., 1160 cu. ft.. 1—24x24x30, McKiernan, class A, straight line, steam driven, cap. 1414 cu. ft.; 1—24x24-¼x30, Ingersoll, class A, steam driven, straight line, cap. 1223 cu. ft., 2—16x20-¼x16, Ingersoll-Sargeant, class H-1, duplex, steam driven, cap. 1540 cu. ft.—HITNER'S.

1 Blaisdell 16x10x10, 60 H.P., 342 cu.ft. First class condition. Theo. Smith & Sons Co., Jersey City, N. J.

Steam driven 3 Laidlaw-Dunn-Gordon duplex 2-stage, and 5 Norwalk tandem 2-stage, capacities 900 to 2100 cu.ft., condition excellent.—NEW RIVER.

3—24"x24"x30" Rand S. L. Price $1000 each.—L. F. SEYFERT'S SONS, INC., 437 N. 3rd St., Phila., Pa.

2 Norwalk 700 cu.ft. and 1200 cu.ft.; excellent condition. Reason for selling, mine worked out. No further use for same.—HANDY BROS. MINING CO., Bay City, Mich.

Belt driven, 1100-1200'; steam driven, 628-235'.—AVERY.

BOATS

[Wanted]

For use on Lake Ontario two boats, capacity 600 to 1000 tons, for carrying stone. Boats with modeled bow desired. Give present location, age, full description and price delivered at Toronto.—CANADIAN STEWART CO., LTD., 30 Church St., New York City.

BOILERS

5—250 H.P. B. & W., 150 lbs. steam. Horizontal return tubular, 2—72"x20', 1—78"x20', 1—72"x18', 1—72"x15', 1—72"x14', triple riveted, butt strapped, 125 lbs. steam.—HITNER'S.

35, 60 and 80 H.P. loco. boilers—PIPE.

6—550 H.P. Altman Taylor B. & W. type, 150 lbs. pressure, complete with steel supporting structure—Arranged to set two in battery; one battery equipped with Taylor stokers.—HENRY R. KENT & CO., 141 Broadway, New York, N. Y.

BUCKETS

1—1 yd. Theo. Smith Orange Peel.—PIPE.

5—¾ cu. yd. standard clam shells.—STALLEY.

Orange peel—¾, 1, 1¼, 1½ yd. capacity; clam shell—½ to 3 yd. capacity.—GIVIN.

CARS

[Standard Gauge]

A number of 4, 6 and 12 yd., also small "V" body type.—SCHMIDT.

2 Platform cars.—DANFORTH.

[36" Gauge]

100 Western 4-yd. dump and 26 Koppel steel concrete.—CARPENTER.

[24" Gauge]

1½ yd. Western with Vulcan Dinkey.—DALLETT.

[Wanted]

2—10 cu.yd. wooden or steel air side dump, must be in first class shape, late make and ready to run.—BLAIR.

30 dump cars, 36" gauge.—W. 899, Eng. News.

Most items are signed with only part of the advertiser's name. Complete names and addresses in alphabetical order will be found under the heading "Addresses."

CRUSHERS

Farrel Jaw, 15x9, with screen and engine.—MARINE.

National Jaw, 14x8, on wheels.—MARINE.

Gyratory, Nos. 8, 7½, 6, 5, 4, 3.—GIVIN.

1 No. 2 Climax on trucks with 15′ elevator with 18 H.P. mounted Climax portable engine and boiler.—BECKWITH.

7½ and 5 Gates—K; No. 6 McCully.—AVERY.

DERRICKS

1 Steel stiff leg, 70′ boom; 1 steel guy, 70′ boom, 25 tons cap.; 1 steel traveling, 45′ boom.—GIVIN.

5 traveling, 50 HP. Lambert elec. hoists.—CARPENTER.

DREDGES

Hydraulic and dipper. Sale or charter.—GIVIN.

A 2½ yd., 80 ft. boom, vertical spuds, 2 boilers, loco. type, Marion deep water dredge, Factory No. 2219. Repairs kept up continually; in first class condition. Can be seen in operation 13 miles north of Las Animas, or 10 miles south of Arlington, Colo., during the next 60 days. Delivery can be made in April.—THE FORT LYON CANAL CO., Las Animas, Colorado.

DRILLS, ROCK

6 Ingersoll, type F-24, 2 class "C" Little Giants.—BECKWITH.

ELECTRIC LIGHTS

For sale at less than half cost. Sixty 300 C.P. D.C. 220 V. Nernst arc lamps, moon globes. In perfect running condition. Can be seen in use in our offices; $4 each. (Regular price, $9.50). Price includes drop lighting switch. Must sell as our voltage is 110 in new office. HILL PUBLISHING CO., 10th Ave. at 36th St., New York.

ENGINES, GAS

1 8 H.P. Vertical Type Fairbanks with sub-base.—SAMPSON.

FIRE ENGINES

2 Fire Engines, condition, first class.—HITNER'S.

HAMMERS

1 No. 4 Arnott.—PIPE.

Arnott steam pile, sizes 1, 2, 3 and 4.—GRIMSHAW.

HEATERS, FEED WATER

Several types, capacities up to 1200 HP.—NEW RIVER.

HOISTING ENGINES

Lidgerwood 10x12 D.D.D.C. side by side drums, 33" diam.—MARINE.

Lidgerwood, 5x8 D.D.D.C. with boiler.—MARINE.

1 3 drum National hoist 10x12 with boiler and three independent winch-heads, excellent condition; 4 7x10 D.C.D.D. with boilers; 1 Lidgerwood D.C.D.D. with swinger, skeleton 7x10, and 1 National D.C.D.D. with swinger, skeleton 7x10.—PIPE.

2 Lidgerwood 14x18, D.C. 3-tandem drum, reversible link motion; 1 Lidgerwood, 10x12, D.C. S.D. reversible link motion; 1 Lambert, 10x12, D.C. D.D. with boiler; 2 Lambert, 8x10, D.C. D.D. with Mass. boilers; 1 Lambert 7x10, D.C. D.D. with boiler; 1 Mundy, 7¼x10, D.C. D.D. with boiler; 1 Mundy, 6¼x10, D.C. D.D. with boiler; 1 O. & S. 6¼x8, D.C. D.D. with boiler. 2 Lidgerwood, 60 H.P. D.D. and swinger d.c. hoists.—HITNER'S.

9x10 Lidgerwood 3 drum—8¼x10 Lidgerwood D.D. with or without boiler or swinger. Other sizes.—GIVIN.

One—8¼x12 Flory, three drum and boiler.—SCHMIDT.

THREE HUNDRED hoists, 2 or 3 drum 7x10, 8¼x10, 9x10, 10x12, skeleton or boilers; 100 electric.—HOISTING.

INSTRUMENTS, SURVEYING

Second-Hand Transits, Levels, etc. Bought, sold or exchanged. Send for list of Second-Hand Instruments. Get our prices before ordering. WILLIAMS, BROWN & EARLE, Inc., Engineering Supplies, Dept. E, 918 Chestnut St., Phila.

LOCOMOTIVES

[Standard Gauge]

1 Porter, Std. G., 20-ton, 12x18, saddle tank.—DOUGLAS.

50 locomotives, Switch, Mogul, Consolidation, Ten Wheel and Saddle Tank types.—SOUTHERN.

2—40 ton switchers, overhauled.—CONTRACTORS S. CO.

Various types and sizes.—SCHMIDT.

[36" Gauge]

10 10x16" Porter, Davenport and Vulcans.—SOUTHERN.

5 9x14" Porters.—SOUTHERN.

2—9x14 Baldwin saddle tank.—BECKWITH.

5—10x16 Vulcans, 1911-12.—CONTRACTORS S. CO.

5—11x16 Vulcan dinkies 1936 to 2039.—CARPENTER.

3—9x14 Porter dinkies 3146 to 3589.—CARPENTER.

A number of 9x14 and 10x16.—SCHMIDT.

[24" Gauge]

1—6x10 Porter, fine condition.—SCHMIDT.

1—7x12 Vulcan, 3 months old.—SCHMIDT.

[Wanted]

2 locomotives, 36" gauge.—W. 898, Eng. News.

LOCOMOTIVE CRANES

4 and 8-wheel, 10, 15 and 20 tons capacity.—HOISTING MACHINERY Co., 48 Church St., New York City.

4 and 8 wheel 10 and 15 ton.—CONTRACTORS S. CO.

15-ton Browning, 4-wheel, S. G., 50′ boom.—DALLETT.

1—7 Ton, 4 wheel, Industrial, 21′ boom; 1—15 ton, 8-wheel Industrial, wrecking crane, 20′ boom, goose neck.—HITNER'S.

15 ton excellent condition, cheap.—STALLEY.

4 and 8 wheel, 10, 15, 20 and 25 tons capacity.—GIVIN.

MIXERS (Asphalt and Concrete)

Hadsel 2 yd. Batch, with engine,—on channels.—MARINE.

Smith ¾ yd. Batch with engine,—on skids—MARINE.

Foote (cont.) No. 3, 7½ H.P. motor D.C. on wheels.—MARINE.

Portable plant, complete capacity 300-600 yds. per day; rare bargain.—LINES FLYNN.

1 cu.yd. Smith with engine on skids.—BECKWITH.

1 Eureka with 3 H.P. D.C. motor, continuous; 2 Austin cubes with engines and boilers on steel skids, and 2—2½ Smiths with engines on wheels.—PIPE.

PILING, SHEET STEEL

About 100 pcs. 28′, fairly good, $25 ton f.o.b. cars, Fort Worth, Tex.—F. N. GRAVES, Pur. Agent, Fort Worth, Texas.

165 pcs. Lackawanna 14" arch web, 22 and 24 ft. lengths, used once, excellent condition.—37 Dun Bldg., Buffalo, N. Y.

5000 pcs. Lackawanna and Carnegie, various widths and lengths. Send your inquiries.—GRIMSHAW.

PIPE

Wrought with new threads and couplings, all sizes.—PIPE.

PUMPS

1 Cameron 3½x2x4 Steam pump.—SAMPSON.

1 No. 8, 1 No. 9, 1 No. 10 Cameron.—MARINE.

2 Davidson Simplex 9x9x11.—MARINE.

1 Worthington Duplex 6x4x6.—MARINE.

1 Worthington Duplex 10x6x10.—MARINE.

2 Snyder-Hughes Vacuum 10x14x12 Simplex.—MARINE.

1 No. 486 Emerson, 4" suc., 3" dis.—MARINE.

Piston and plunger, sizes up to 12x12x12.—NEW RIVER.

2 Worthington 1,500,000 gal. Horizontal, Duplex Power, 14" diameter, 10" stroke.—WATER & LIGHT COMMISSION, Fergus Falls, Minn.

1 Compound duplex vertical center packed plunger, circulating pump, size 21—34x19—24, capacity 3500 gallons, 24 hours.—HITNER'S.

3 Underwriters fire pumps cheap.—WHITNEY.

2 Emerson steam No. 4.—PIPE.

RAILS

500 tons first-class 56 and 60 lb. rail.—CARPENTER.

180 ft. 30 lb. rail; 480 ft. Koppel portable track, 12 lb. rails on steel tie, 24" gauge.—DANFORTH.

[Wanted]

2000 ft. 36" gauge track.—W. 897, Eng. News.

ROAD ROLLERS

For sale or to rent, tandem and 3-wheel steam road rollers.—F. S. 873, Eng. News.

One—10 ton three wheel Buffalo-Pitts.—SCHMIDT.

First class 3-wheeled steam.—F. S. 779, Eng. News.

[Wanted]

Paving roller at a bargain. Send description and price to W. 780, Eng. News.

Most items are signed with only part of the advertiser's name. Complete names and addresses in alphabetical order will be found under the heading "Addresses."

SEWER PLANTS

2—Complete Sewer Contractor's Plants, including compressors and locks.—LINES FLYNN.

STEAM SHOVELS

Marion, model 60, steam shovel.—SOUTHERN.

1 ¾-yd. revolving traction, rebuilt.—LINES FLYNN.

1 70-ton Bucyrus, 2½ yd. dipper; Thew "O."—BRADEN.

2—65 ton, Bucyrus, 2½ Yd. dippers, $3000 each.—HITNER'S.

50 steam shovels, all makes and sizes; some used only two months; rent or sale. Rare bargains. Everything sold is guaranteed.—CONTRACTORS S. CO.

Thew "O" traction, high number, Mass. boiler.—DALLETT.

1 Model 0 Thew, built 1912, low price.—GIVIN.

1—Bucyrus, 18 B, traction revolving ⅞ yd.—GIVIN.

One—⅝ yd. Marion-Osgood. Traction.—SCHMIDT.

Several large shovels, various makes.—SCHMIDT.

Vulcan No. 728—1¼ yd. Dipper, Bucyrus Maker, Self-propelled. Good condition. Bargain. Address NEILE F. TOWNER, 13 North Pearl St., Albany, N. Y.

1 Marion Model 60, 1439 with 1 standard and 1 special boom, and 1 Model 75, 2112.—CARPENTER.

[Wanted]

1 Marion Model 28 or Bucyrus Model B-14 on standard gage railroad tracks, must be in first class shape, late make and ready to run.—BLAIR.

¾ yd. traction type.—W. 900, Eng. News.

TRAVELING CRANES

1 15-ton electric 36' 6" span.—DOUGLAS.

One—with clam shell bucket, new and cheap.—WHITNEY.

3-ton hand power, 22', 10½" span.—DANFORTH.

TURBINES

2 Houston 44" Vertical, with beveled gears, shafting, etc.—WATER & LIGHT COMMISSION, Fergus Falls, Minn.

FOR SALE

Air Reheaters	Tripods	Pumps
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Apply to

Harold Carpenter, Resident Engineer, Astoria Light, Heat & Power Co., East 132nd St. and Locust Ave., New York City.

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STEEL AND MASONRY CONSTRUCTION
PIERS AND SHEDS COALING PLANTS

Cable Address, Santee New York. Western Union & Lieber Codes Used.
Cable Address, Pawnee Havana. Havana Office, Zulueta 36 D.

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Woolworth Building, 233 Broadway New York

Dredge Pipe for Sale

Pontoon and Land Pipe

20 inches and 22 inches in diameter. Also casks, pontoons, elbows and valves. In good condition, will sell at one-half value. Inquire, P. O. Box 27, Rochester, N. Y.

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Earth and Stone Handling Machinery

Air Dump Cars—Hand Dump Cars—Spreader Cars—Scrapers—Road Machinery—Portable Rock Crushers—Dump Wagons—Elevating Graders. Wagon Loaders and Ditchers. Glad to send Catalogs.

Western Wheeled Scraper Co., Farnsworth Ave. Aurora, Ill.

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For Dependable Service

A Link-Belt Crane is an all-around machine for general work around any plant. It may be arranged to handle hook block, self-filling grab bucket, drag line bucket, electric lifting magnet, or equipped with special boom for steam shovel attachment and pile driver.

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Our equipment is regularly repaired at our own shops and we guarantee its mechanical condition. You can depend on it for any work you have in contemplation, big or little.

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Our prices are low for the class of equipment we offer.

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UNITED STATES EQUIPMENT CO.
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Your Idle Machinery

or plant, or tools for which you have no present use might be sold or rented to some other reader through the medium of a "For Sale or Rent" advertisement in Engineering News.

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Cost more to build—
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Barrows and Carts

But they last so much longer than ordinary barrows that their higher first cost is forgotten in their big economy in the long run.

Write for catalog No. 19. It describes the very barrow or cart for your particular requirements.

Sterling Wheelbarrow Co.

6401-6500 Pullen Ave.. Milwaukee, Wisconsin.

The OHIO Makes Good Everywhere

Over two years have elapsed since the purchase of the OHIO crane by the Babcock & Wilcox Company of Bayonne, N. J., who own and operate four different makes of locomotive cranes.

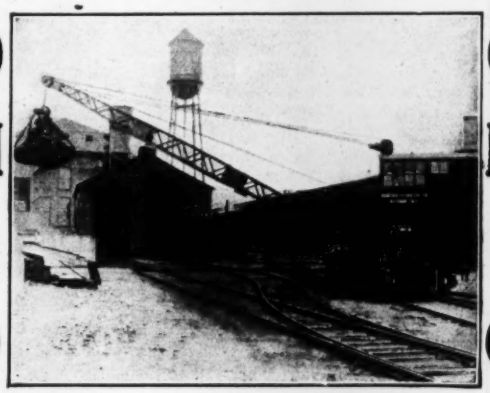
Every part has been given the service test by severe usage.

Not one part has been replaced that was defective or broken.

Do you wonder this OHIO made good?

Write for Catalogue No. 5.

O H I O



O H I O

The Ohio Locomotive Crane Co.,

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Fisher Bldg.,	Chicago.
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BARGE O-CRANE-S

Another efficient type of the extensive O.-S. Line of Material Handling Machinery.

Largely used in various harbors for coaling ships.

Whatever your problem in material handling, there's an O.-S. way to do it better.

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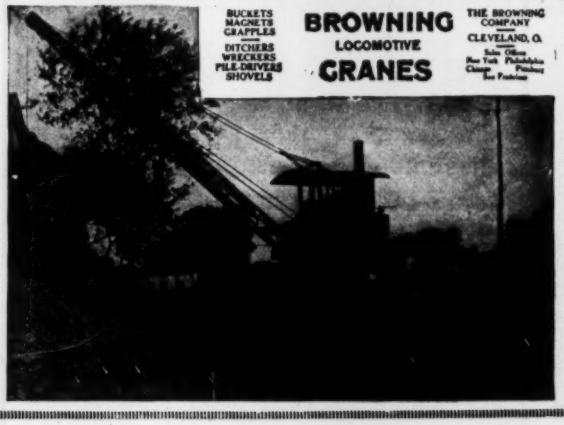
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